

### **DETAILED ACTION**

Acknowledgment is made of the receipt and entry of the amendment filed on March 5, 2010.

Any rejection present in the previous Office action mail dated December 8, 2009 and not repeated herein is withdrawn.

### ***Allowable Subject Matter***

Claims 6, 7 and 18-29 are allowed.

### **EXAMINER'S AMENDMENT**

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with James Larson on June 3, 2010.

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The application has been amended as follows:

**IN THE CLAIMS:**

Claims 8 and 11 are cancelled.

Replace Claim 6 with:

- - A method for activating, *in vivo*, plant defense and resistance reactions against biotic or abiotic stresses comprising administering to living plants or seeds a composition that has an effective concentration of ulvans extracted from green algae of the genus *Ulva* or *Enteromorpha*, wherein administering to the living plants or the seeds is effected under *in vivo* conditions. - -

Replace Claim 7 with:

- - The method as claimed in claim 6, wherein the administering to the living plants is carried out via leaves or via roots of the living plants. - -

Replace Claim 18 with:

- - The method as claimed in claim 22, wherein the effective concentration of the ulvans is 1 g per liter of the solution. - -

Replace Claim 19 with:

- - The method as claimed in claim 6, wherein the effective concentration of ulvans is from 10 to 1000 g per hectare. - -

In Claim 20, line 2, delete "amount" and insert - - concentration of ulvans - -.

Replace Claim 21 with:

- - A method for activating, *in vivo*, plant defense and resistance reactions against biotic stresses comprising administering to living plants or seeds an effective amount of a composition comprising ulvans extracted from green algae of the genus *Ulva* or

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*Enteromorpha*, wherein administering to the living plants or the seeds is effected under *in vivo* conditions. - -

Claims 22-29 are added, as follows:

- - 22. The method as claimed in claim 6, wherein the composition is a solution, and the effective concentration of the ulvans is from 0.1 g to 100 g per liter of the solution. - -

- - 23. The method as claimed in claim 22, wherein the administering of the composition is to (1) leaves or roots of the living plants or (2) post harvest treatment of the living plants.- -

- - 24. The method as claimed in claim 23, wherein the administering of the composition is to the roots of the living plants and the solution is a nutritive solution.- -

- - 25. The method as claimed in claim 24, wherein the nutritive solution is administered dropwise to the roots to provide the nutritive solution to the roots. - -

- - 26. The method as claimed in claim 24, wherein the nutritive solution is administered to the roots in a hydroponics system. - -

- - 27. The method as claimed in claim 6, wherein the administering of the composition is to the seeds. - -

- - 28. The method as claimed in claim 27, wherein the composition is a solution, and the effective concentration of the ulvans is from 0.1 g to 100 g per liter of the solution. - -

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- - 29. The method as claimed in claim 6, wherein the administering is in the form of a solid, and the solid is in a powdered form or a granulated form. - -

Any inquiry concerning this communication or earlier communications from the examiner should be directed to MICHELE FLOOD whose telephone number is (571)272-0964. The examiner can normally be reached on 7:00 am - 3:30 pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Terry McKelvey can be reached on 571-272-0775. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Michele Flood  
Primary Examiner  
Art Unit 1655

MCF  
June 3, 2010

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